

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/050443

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 D21H21/28 D21H19/42

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 131 981 A (HENNING GEORG ET AL) 21 July 1992 (1992-07-21) claims 1-7; examples 1-6	1,7-9
X	EP 0 826 823 A (SIHL ZUERCHER PAPIERFABRIK AN) 4 March 1998 (1998-03-04) claims 1-24	1,7-9
X	US 6 387 500 B1 (BEHL SANJAY) 14 May 2002 (2002-05-14) paragraphs '0019!', '0020!; claims 1-39	1,7-9
X	EP 0 575 625 A (SUMITOMO DOW LTD) 29 December 1993 (1993-12-29) claims 1-19	1,7-9
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

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Date of the actual completion of the international search

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Karlsson, L

# INTERNATIONAL SEARCH REPORT

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PCT/EP2004/050443

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 471 486 A (SUMITOMO CHEMICAL CO) 19 February 1992 (1992-02-19) claims 1-21	1,7-9
X	WO 02/46528 A (SPECTRA SYSTEMS CORP) 13 June 2002 (2002-06-13) claim 1; examples A-D	1,7-9
Y		3
Y	US 5 800 870 A (LUEBKE GARY ET AL) 1 September 1998 (1998-09-01) cited in the application	3
A	the whole document	1,2,4-9
A	US 5 296 284 A (DURHAM DAVID H) 22 March 1994 (1994-03-22) the whole document	1-9
A	US 5 416 181 A (NGUYEN CHARLES C ET AL) 16 May 1995 (1995-05-16) the whole document	1-9
A	GB 526 674 A (JAMES KEATON; GEIGY COLOUR COMPANY LTD) 24 September 1940 (1940-09-24) the whole document	1-9

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/050443

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5131981	A	21-07-1992	DE	3732981 A1	13-04-1989
			AU	2295788 A	06-04-1989
			CA	1302022 C	02-06-1992
			DE	3889049 D1	19-05-1994
			DK	544388 A	31-03-1989
			EP	0309908 A2	05-04-1989
			FI	884421 A ,B,	31-03-1989
			JP	1104898 A	21-04-1989
EP 0826823	A	04-03-1998	CA	2214210 A1	28-02-1998
			EP	0826823 A1	04-03-1998
US 6387500	B1	14-05-2002	AU	1375299 A	24-05-1999
			WO	9923179 A1	14-05-1999
EP 0575625	A	29-12-1993	JP	2844031 B2	06-01-1999
			JP	5209399 A	20-08-1993
			JP	2789401 B2	20-08-1998
			JP	5214166 A	24-08-1993
			JP	2961208 B2	12-10-1999
			JP	6001802 A	11-01-1994
			JP	2879122 B2	05-04-1999
			JP	6016736 A	25-01-1994
			AU	3171793 A	03-08-1993
			CA	2105879 A1	11-07-1993
			CN	1075150 A ,B	11-08-1993
			CN	1207430 A ,B	10-02-1999
			DE	69226173 D1	13-08-1998
			DE	69226173 T2	18-02-1999
			EP	0575625 A1	29-12-1993
			ES	2121073 T3	16-11-1998
			WO	9314131 A1	22-07-1993
			US	5656689 A	12-08-1997
			US	5648420 A	15-07-1997
			US	5703157 A	30-12-1997
EP 0471486	A	19-02-1992	JP	2979600 B2	15-11-1999
			JP	4100997 A	02-04-1992
			JP	2864738 B2	08-03-1999
			JP	4209893 A	31-07-1992
			JP	2913839 B2	28-06-1999
			JP	5263395 A	12-10-1993
			AU	632430 B2	24-12-1992
			AU	8176491 A	13-02-1992
			CA	2048186 A1	11-02-1992
			DE	69128222 D1	02-01-1998
			EP	0471486 A2	19-02-1992
			FI	913796 A	11-02-1992
			NZ	239340 A	23-12-1992
			US	5131951 A	21-07-1992
WO 0246528	A	13-06-2002	AU	2024902 A	18-06-2002
			US	2002066543 A1	06-06-2002
			WO	0246528 A1	13-06-2002
US 5800870	A	01-09-1998	CA	2283226 A1	11-09-1998
			CN	1253604 T	17-05-2000
			EP	1005590 A1	07-06-2000

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/050443

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5800870	A		ID 23185 A JP 2000509776 T WO 9839514 A1	23-03-2000 02-08-2000 11-09-1998
US 5296284	A	22-03-1994	AU 3449789 A CN 1047682 A EP 0363471 A1 JP 3500059 T WO 8909804 A1	03-11-1989 12-12-1990 18-04-1990 10-01-1991 19-10-1989
US 5416181	A	16-05-1995	US 5003022 A AT 179368 T AU 650525 B2 AU 1463692 A BR 9204109 A CA 2079207 A1 CN 1064875 A ,B CN 1106835 A ,B CN 1106836 A ,B DE 69229024 D1 DE 69229024 T2 EP 0523230 A1 EP 0818498 A2 FI 924442 A JP 5507961 T MX 9200491 A1 NO 923841 A NZ 241514 A PH 30264 A PT 100094 A ,B RU 2094443 C1 WO 9213714 A1 US 5527544 A US 5565509 A US 5667885 A ZA 9200819 A AT 131844 T AU 621206 B2 AU 5159190 A BR 9005082 A CA 2025671 A1 DE 69024275 D1 DE 69024275 T2 DK 411100 T3 EP 0411100 A1 ES 2019808 A6 FI 104977 B1 JP 2875018 B2 JP 3503908 T NO 904373 A ,B, NZ 232467 A PT 93121 A ,B WO 9009406 A1 US 5130395 A US 5130394 A ZA 9000972 A	26-03-1991 15-05-1999 23-06-1994 07-09-1992 06-07-1993 06-08-1992 30-09-1992 16-08-1995 16-08-1995 02-06-1999 26-08-1999 20-01-1993 14-01-1998 02-10-1992 11-11-1993 01-11-1992 01-10-1992 26-01-1994 20-02-1997 31-08-1993 27-10-1997 20-08-1992 18-06-1996 15-10-1996 16-09-1997 07-10-1993 15-01-1996 05-03-1992 05-09-1990 06-08-1991 11-08-1990 01-02-1996 13-06-1996 29-01-1996 06-02-1991 01-07-1991 15-05-2000 24-03-1999 29-08-1991 07-12-1990 26-03-1991 31-08-1990 23-08-1990 14-07-1992 14-07-1992 28-11-1990
GB 526674	A	24-09-1940	NONE	